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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 09	CA/CAPLUS records now contain indexing from 1907 to the present
NEWS	4	DEC 08	INPADOC: Legal Status data reloaded
NEWS	5	SEP 29	DISSABS now available on STN
NEWS	6	OCT 10	PCTFULL: Two new display fields added
NEWS	7	OCT 21	BIOSIS file reloaded and enhanced
NEWS	8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS	9	NOV 24	MSDS-CCOHS file reloaded
NEWS	10	DEC 08	CABA reloaded with left truncation
NEWS	11	DEC 08	IMS file names changed
NEWS	12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS	13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAPLUS
NEWS	14	DEC 17	DGENE: Two new display fields added
NEWS	15	DEC 18	BIOTECHNO no longer updated
NEWS	16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS	17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS	18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS	19	DEC 22	ABI-INFORM now available on STN
NEWS	20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAPLUS
NEWS	22	FEB 05	German (DE) application and patent publication number format changes
NEWS	23	MAR 03	MEDLINE and LMEADLINE reloaded
NEWS	24	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	25	MAR 03	FRANCEPAT now available on STN
NEWS	EXPRESS		MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS	HOURS		STN Operating Hours Plus Help Desk Availability
NEWS	INTER		General Internet Information
NEWS	LOGIN		Welcome Banner and News Items
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FILE 'HOME' ENTERED AT 14:46:22 ON 26 MAR 2004

=> file medline, uspatful, dgene, embase, wpids, fsta, biosis		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 14:46:40 ON 26 MAR 2004

FILE 'USPATFULL' ENTERED AT 14:46:40 ON 26 MAR 2004  
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=> s fluorescent protein and GFP  
L1 27483 FLUORESCENT PROTEIN AND GFP

=> s modified GFP and wildtype  
L2 16 MODIFIED GFP AND WILDTYPE

=> s l1 and l2  
L3 16 L1 AND L2

=> d l3 ti abs ibib tot

L3 ANSWER 1 OF 16 USPATFULL on STN  
TI Transgenic plants expressing puroindolines and methods for producing such plants  
AB This invention relates to plant cells, plant tissues or plants transgenic for a nucleic acid encoding a puroindoline. This invention also relates to methods of producing such transgenic plant cells, plant tissues or plants. The transgenic plants produced by the methods of this invention are useful in reducing the damage caused by plant pests, especially plant pathogens such as fungi and bacteria.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:284216 USPATFULL  
TITLE: Transgenic plants expressing puroindolines and methods for producing such plants  
INVENTOR(S): Giroux, Michael J., Bozeman, MT, UNITED STATES  
Sherwood, John, Bozeman, MT, UNITED STATES  
Krishnamurthy, K., Rockville, MD, UNITED STATES  
Morris, Craig F., Pullman, WA, UNITED STATES

NUMBER	KIND	DATE
-----		

PATENT INFORMATION: US 2003200561 A1 20031023  
 APPLICATION INFO.: US 2003-447541 A1 20030527 (10)  
 RELATED APPLN. INFO.: Division of Ser. No. US 2000-489674, filed on 24 Jan 2000, GRANTED, Pat. No. US 6600090 Continuation-in-part of Ser. No. US 1998-83852, filed on 22 May 1998, GRANTED, Pat. No. US 6596930  
 DOCUMENT TYPE: Utility  
 FILE SEGMENT: APPLICATION  
 LEGAL REPRESENTATIVE: USDA-ARS-OFFICE OF TECHNOLOGY TRANSFER, PATENT ADVISORS OFFICE, WESTERN REGIONAL RESEARCH CENTER, 800 BUCHANAN ST, ALBANY, CA, 94710  
 NUMBER OF CLAIMS: 22  
 EXEMPLARY CLAIM: 1  
 LINE COUNT: 2217  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 16 USPATFULL on STN  
 TI Methods for increasing mRNA half-life in eukaryotic cells  
 AB A method is provided whereby altered cells exhibit increased intracellular half-life of transcribed mRNAs resulting in increased levels of expressed and/or secreted proteins. The cells are genetically altered to increase the level of intracellular ribosome receptor, which induces mRNA half-life.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:282749 USPATFULL  
 TITLE: Methods for increasing mRNA half-life in eukaryotic cells  
 INVENTOR(S): Meyer, David L., Los Angeles, CA, UNITED STATES  
 PATENT ASSIGNEE(S): The Regents of the University of California (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003199092	A1	20031023
APPLICATION INFO.:	US 2003-342136	A1	20030113 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-347533P	20020111 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C., P O BOX 458, ALAMEDA, CA, 94501	
NUMBER OF CLAIMS:	52	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	19 Drawing Page(s)	
LINE COUNT:	1839	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 16 USPATFULL on STN  
 TI Better emergence characteristics and improved seedling growth under low-light environments  
 AB This invention relates to seedlings which demonstrate better emergence characteristics when grown in darkness and improved seedling growth when grown under low-light levels. More specifically, the present invention relates to producing plant cells and whole plants which contain a nucleic acid sequence coding for the Coil domain as well as the sequence coding for the **wildtype** COPI gene. The plants of this invention display unopened, compact leaves during seedling emergence in the darkness and reduced etiolation of seedlings grown in low-levels after emergence. The invention further relates to plant breeding methods which enable the transfer of these desirable traits to **wildtype** plants.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:233639 USPATFULL  
TITLE: Better emergence characteristics and improved seedling growth under low-light environments  
INVENTOR(S): Deng, Xing Wang, Hamden, CT, UNITED STATES  
McNellis, Timothy, State College, PA, UNITED STATES  
Torii, Keiko, Seattle, WA, UNITED STATES  
PATENT ASSIGNEE(S): Yale University (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003163841	A1	20030828
APPLICATION INFO.:	US 2003-386499	A1	20030313 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-407956, filed on 28 Sep 1999, GRANTED, Pat. No. US 6579716		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-101992P	19980928 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE NW, WASHINGTON, DC, 20004	
NUMBER OF CLAIMS:	38	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	10 Drawing Page(s)	
LINE COUNT:	2905	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 16 USPATFULL on STN

TI Transgenic plants expressing puroindolines and methods for producing such plants

AB This invention relates to plant cells, plant tissues or plants transgenic for a nucleic acid encoding a puroindoline. This invention also relates to methods of producing such transgenic plant cells, plant tissues or plants. The transgenic plants produced by the methods of this invention are useful in reducing the damage caused by plant pests, especially plant pathogens such as fungi and bacteria.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:203399 USPATFULL  
TITLE: Transgenic plants expressing puroindolines and methods for producing such plants  
INVENTOR(S): Giroux, Michael J., Bozeman, MT, United States  
Sherwood, John E., Bozeman, MT, United States  
Krishnamurthy, Krish, Bozeman, MT, United States  
Morris, Craig F., Pullman, WA, United States  
PATENT ASSIGNEE(S): Montana State University, Bozeman, MT, United States (U.S. corporation)  
The United States of America as represented by the Secretary of Agriculture, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6600090	B1	20030729
APPLICATION INFO.:	US 2000-489674		20000124 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-83852, filed on 22 May 1998		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Fox, David T.		
ASSISTANT EXAMINER:	Kubelik, Anne		

LEGAL REPRESENTATIVE: Morgan, Lewis & Bockius  
NUMBER OF CLAIMS: 26  
EXEMPLARY CLAIM: 23  
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)  
LINE COUNT: 2249  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 16 USPATFULL on STN

TI Better emergence characteristics and improved seedling growth under low-light environments

AB This invention relates to seedlings which demonstrate better emergence characteristics when grown in darkness and improved seedling growth when grown under low-light levels. More specifically, the present invention relates to producing plant cells and whole plants which contain a nucleic acid sequence coding for the Coil domain as well as the sequence coding for the **wildtype** COP1 gene. The plants of this invention display unopened, compact leaves during seedling emergence in the darkness and reduced etiolation of seedlings grown in low-levels after emergence. The invention further relates to plant breeding methods which enable the transfer of these desirable traits to **wildtype** plants.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:161889 USPATFULL  
TITLE: Better emergence characteristics and improved seedling growth under low-light environments  
INVENTOR(S): Deng, Xing Wang, Hamden, CT, United States  
McNellis, Timothy, State College, PA, United States  
Torii, Keiko, Seattle, WA, United States  
PATENT ASSIGNEE(S): Yale University, New Haven, CT, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6579716	B1	20030617
APPLICATION INFO.:	US 1999-407956		19990928 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-101992P	19980928 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	McGarry, Sean	
ASSISTANT EXAMINER:	Zara, Joe	
LEGAL REPRESENTATIVE:	Morgan, Lewis & Bockius, LLP	
NUMBER OF CLAIMS:	28	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	30 Drawing Figure(s); 13 Drawing Page(s)	
LINE COUNT:	2927	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 16 USPATFULL on STN

TI Methods for the identification of reporter and target molecules using comprehensive gene expression profiles

AB The present invention relates to methods of identifying genes whose expression is indicative of activation of a particular biochemical or metabolic pathway or a common set of biological reactions or functions in a cell ("regulon indicator genes") The present invention provides an example of such an indicator gene. The present invention also relates to methods of partially characterizing a gene of unknown function by determining which biological pathways, reactions or functions its expression is associated with, thereby placing the gene within a functional genetic group or "regulon". These partially characterized genes may be used to identify desirable therapeutic targets of

biological pathways of interest ("regulon target genes") The present invention provides examples of such target genes. Methods for identifying effectors (activators and inhibitors) of regulon target genes are provided. The present invention also provides examples of regulon target gene inhibitors.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:135137 USPATFULL  
TITLE: Methods for the identification of reporter and target molecules using comprehensive gene expression profiles  
INVENTOR(S): Ashby, Matthew, Mill Valley, CA, UNITED STATES  
Scherer, Stewart, Moraga, CA, UNITED STATES  
Phillips, John W., Kirkland, WA, UNITED STATES  
Ziman, Michael, Seattle, WA, UNITED STATES  
Marini, Nicholas, San Francisco, CA, UNITED STATES  
PATENT ASSIGNEE(S): Rosetta Inpharmatics, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003093226	A1	20030515
APPLICATION INFO.:	US 2002-205841	A1	20020726 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-540806, filed on 31 Mar 2000, ABANDONED		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-127223P	19990331 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	PENNIE AND EDMONDS, 1155 AVENUE OF THE AMERICAS, NEW YORK, NY, 100362711	
NUMBER OF CLAIMS:	64	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	87 Drawing Page(s)	
LINE COUNT:	3369	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 16 USPATFULL on STN

TI Methods for identifying agents that induce a cellular phenotype, and compositions thereof

AB The present invention is directed to methods for performing negative selection assays leading to the identification of cytostatic or cytotoxic agents that cause a lethal phenotype. The invention is useful also for evaluation of conditional cytotoxicity and cell-specific cytotoxicity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:78469 USPATFULL  
TITLE: Methods for identifying agents that induce a cellular phenotype, and compositions thereof  
INVENTOR(S): Kamb, Carl Alexander, Salt Lake City, UT, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003054389	A1	20030320
APPLICATION INFO.:	US 2002-196408	A1	20020716 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-309088P	20010731 (60)
	US 2001-305711P	20010716 (60)
	US 2001-305712P	20010716 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	

LEGAL REPRESENTATIVE: MARSHALL, GERSTEIN & BORUN, 6300 SEARS TOWER, 233 SOUTH WACKER, CHICAGO, IL, 60606-6357  
NUMBER OF CLAIMS: 15  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 28 Drawing Page(s)  
LINE COUNT: 4473  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 8 OF 16 USPATFULL on STN

TI Synthetic DNA encoding an orange seapen-derived green **fluorescent protein** with codon preference of mammalian expression systems and biosensors  
AB Synthetic versions of a full length and termini truncated humanized green **fluorescent protein** based on *Ptilosarcus gurneyi* are disclosed which have been modified to the favored or most favored codons for mammalian expression systems. The disclosed encoded protein has 239 amino acid residues compared with the wild type *Ptilosarcus gurneyi* which has 238 amino acids. In the present invention, a valine residue has been added at the second position from the amino terminus and codon preference bias has been changed in a majority of the wild type codons of *Ptilosarcus gurneyi* **fluorescent protein**. The humanized *Ptilosarcus gurneyi* green **fluorescent protein** is useful as a fluorescent tag for monitoring the activities of its fusion partners using imaging based approaches.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:343947 USPATFULL  
TITLE: Synthetic DNA encoding an orange seapen-derived green **fluorescent protein** with codon preference of mammalian expression systems and biosensors  
INVENTOR(S): Chen, Yih-Tai, Gibsonia, PA, UNITED STATES  
Cao, Longguang, Boulder, CO, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002197673	A1	20021226
APPLICATION INFO.:	US 2001-977897	A1	20011015 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-297645P	20010612 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	CRAIG G. COCHENOUR, BUCHANAN INGERSOLL, P.C., ONE OXFORD CENTRE, 20th FLOOR, 301 GRANT STREET, PITTSBURGH, PA, 15219	
NUMBER OF CLAIMS:	45	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	20 Drawing Page(s)	
LINE COUNT:	1714	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 9 OF 16 USPATFULL on STN

TI Tandem **fluorescent protein** constructs  
AB This invention provides tandem **fluorescent protein** construct including a donor **fluorescent protein** moiety, an acceptor **fluorescent protein** moiety and a linker moiety that couples the donor and acceptor moieties. The donor and acceptor moieties exhibit fluorescence resonance energy transfer which is eliminated upon cleavage. The constructs are useful in enzymatic assays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:294631 USPATFULL  
TITLE: Tandem fluorescent protein constructs  
INVENTOR(S): Tsien, Roger Y., La Jolla, CA, UNITED STATES  
Heim, Roger, Del Mar, CA, UNITED STATES  
Cubitt, Andrew, San Diego, CA, UNITED STATES  
PATENT ASSIGNEE(S): THE REGENTS OF THE UNIVERSITY OF CALIFORNIA (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002164674	A1	20021107
APPLICATION INFO.:	US 2002-57505	A1	20020125 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-396003, filed on 13 Sep 1999, PENDING Continuation of Ser. No. US 1997-792553, filed on 31 Jan 1997, GRANTED, Pat. No. US 5981200 Continuation-in-part of Ser. No. US 1996-594575, filed on 31 Jan 1996, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Lisa A. Haile, J.D., Ph.D., GRAY CARY WARE & FREIDENRICH LLP, Suite 1100, 4365 Executive Drive, San Diego, CA, 92121-2133		
NUMBER OF CLAIMS:	57		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Page(s)		
LINE COUNT:	1845		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 10 OF 16 USPATFULL on STN

TI Identification of drugs and drug targets by detection of the stress response

AB The invention features methods of high throughput screening of candidate drug agents and rapid identification of drug targets by examining induction of the stress response in a host cell, e.g., the stress response in **wildtype** host cells and/or in host cells that differ in target gene product dosage (e.g., host cells that have two copies of a drug target gene product-encoding sequence relative to one copy). In general, induction of the stress response in **wildtype** host cells indicates that a candidate agent has activity of the drug. Induction of a relatively lower or undetectable stress response in a host cell comprising an alteration in gene product dosage indicates that the host cell is drug-sensitive and is altered in a gene product that plays a role in resistance to the drug.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:171871 USPATFULL  
TITLE: Identification of drugs and drug targets by detection of the stress response  
INVENTOR(S): Davis, Ronald W., Palo Alto, CA, UNITED STATES  
Giaever, Guri N., Palo Alto, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002090620	A1	20020711
APPLICATION INFO.:	US 2001-898745	A1	20010703 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-218288P	20000714 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Carol L. Francis, Bozicevic, Field and Francis LLP,	



Suite 200, 200 Middlefield Road, Menlo Park, CA, 94025  
NUMBER OF CLAIMS: 20  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 1 Drawing Page(s)  
LINE COUNT: 1530  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 11 OF 16 USPATFULL on STN  
TI Methods for validating polypeptide targets that correlate to cellular phenotypes  
AB Generally applicable methods for identifying physiologically relevant endogenous target molecules, are provided. The methods use both protein interaction assay steps and phenotypic assay steps. In some embodiments, protein interactions are detected utilizing yeast two hybrid techniques.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:85148 USPATFULL  
TITLE: Methods for validating polypeptide targets that correlate to cellular phenotypes  
INVENTOR(S): Kamb, Carl Alexander, Salt Lake City, UT, UNITED STATES  
Caponigro, Giordano Michael, Salt Lake City, UT, UNITED STATES  
Teng, David Heng-Fai, Salt Lake City, UT, UNITED STATES  
Sandrock, Tanya Marie, Salt Lake City, UT, UNITED STATES  
Stump, Mark, Salt Lake City, UT, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002045188	A1	20020418
APPLICATION INFO.:	US 2001-865644	A1	20010525 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-193759, filed on 17 Nov 1998, ABANDONED Continuation-in-part of Ser. No. WO 2001-US9927409, filed on 10 Apr 2001, UNKNOWN		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Li-Hsien Rin-Laures, MD, MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN, 6300 Sears Tower, 233 South Wacker Drive, Chicago, IL, 60606-6402		
NUMBER OF CLAIMS:	24		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Page(s)		
LINE COUNT:	2579		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 12 OF 16 USPATFULL on STN  
TI Mutants of the green **fluorescent protein** having improved fluorescent properties at 37°  
AB The present invention relates to mutants of the green **fluorescent protein** having improved fluorescent properties at 37° C. The mutants provide for improved methods of monitoring gene expression, e.g., for use as cell markers or protein expression indicators in prokaryotic and, especially, eucaryotic systems where the standard physiological temperature is 37° C.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2000:98547 USPATFULL  
TITLE: Mutants of the green **fluorescent protein** having improved fluorescent properties at 37°  
INVENTOR(S): Michaels, Mark, Encino, CA, United States  
PATENT ASSIGNEE(S): Amgen Inc., Thousand Oaks, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6096865		20000801
APPLICATION INFO.:	US 1996-643704		19960506 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Spector, Lorraine		
ASSISTANT EXAMINER:	Kaufman, Claire M.		
LEGAL REPRESENTATIVE:	Crandall, Craig A., Levy, Ron K., Odre, Steven M.		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1271		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 13 OF 16 USPATFULL on STN

TI Humanized green **fluorescent protein** genes and methods

AB Disclosed are synthetic and "humanized" versions of green **fluorescent protein (GFP)** genes adapted for high level expression in mammalian cells, especially those of human origin. Base substitutions are made in various codons in order to change the codon usage to one more appropriate for expression in mammalian cells. Recombinant vectors carrying such humanized genes are also disclosed. In addition, various methods for using the efficient expression of humanized **GFP** in mammalian cells and in animals are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2000:12655 USPATFULL

TITLE: Humanized green **fluorescent protein** genes and methods

INVENTOR(S): Muzyczka, Nicholas, Gainesville, FL, United States  
Zolotukhin, Sergei, Gainesville, FL, United States  
Hauswirth, William, Gainesville, FL, United States

PATENT ASSIGNEE(S): University of Florida, Gainesville, FL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6020192		20000201
APPLICATION INFO.:	US 1997-893327		19970716 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1997-588201, filed on 18 Jan 1997		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Degen, Nancy		
ASSISTANT EXAMINER:	Wang, Andrew		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 22 Drawing Page(s)		
LINE COUNT:	4342		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 14 OF 16 USPATFULL on STN

TI Tandem **fluorescent protein** constructs

AB This invention provides tandem **fluorescent protein** construct including a donor **fluorescent protein** moiety, an acceptor **fluorescent protein** moiety and a linker moiety that couples the donor and acceptor moieties. The donor and acceptor moieties exhibit fluorescence resonance energy transfer which is eliminated upon cleavage. The constructs are useful in enzymatic assays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:141607 USPATFULL  
TITLE: Tandem **fluorescent protein**  
constructs  
INVENTOR(S): Tsien, Roger Y., La Jolla, CA, United States  
Heim, Roger, Del Mar, CA, United States  
Cubitt, Andrew, San Diego, CA, United States  
PATENT ASSIGNEE(S): The Regents of the University of California, Oakland,  
CA, United States (U.S. corporation)  
Aurora Biosciences Corporation, La Jolla, CA, United  
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5981200		19991109
APPLICATION INFO.:	US 1997-792553		19970131 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-594575, filed on 31 Jan 1996		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Feisee, Lila		
ASSISTANT EXAMINER:	Pak, Michael		
LEGAL REPRESENTATIVE:	Fish & Richardson P.C.		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 10 Drawing Page(s)		
LINE COUNT:	1903		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 15 OF 16 USPATFULL on STN

TI Humanized green **fluorescent protein** genes and  
methods  
AB Disclosed are synthetic and "humanized" versions of green  
**fluorescent protein (GFP)** genes adapted for  
high level expression in mammalian cells, especially those of human  
origin. Base substitutions are made in various codons in order to change  
the codon usage to one more appropriate for expression in mammalian  
cells. Recombinant vectors carrying such humanized genes are also  
disclosed. In addition, various methods for using the efficient  
expression of humanized **GFP** in mammalian cells and in animals  
are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:128366 USPATFULL  
TITLE: Humanized green **fluorescent protein**  
genes and methods  
INVENTOR(S): Zolotukhin, Sergei, Gainesville, FL, United States  
Muzyczka, Nicholas, Gainesville, FL, United States  
Hauswirth, William W., Gainesville, FL, United States  
PATENT ASSIGNEE(S): The University of Florida Research Foundation Inc.,  
Gainesville, FL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5968750		19991019
APPLICATION INFO.:	US 1998-169605		19981009 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-588201, filed on 18 Jan 1996, now patented, Pat. No. US 5874304		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Elliott, George P.		
ASSISTANT EXAMINER:	Wang, Andrew		
LEGAL REPRESENTATIVE:	Williams, Morgan & Amerson		
NUMBER OF CLAIMS:	30		

EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 11 Drawing Figure(s); 19 Drawing Page(s)  
LINE COUNT: 3839  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 16 OF 16 USPATFULL on STN  
TI Humanized green **fluorescent protein** genes and methods  
AB Disclosed are synthetic and "humanized" versions of green **fluorescent protein (GFP)** genes adapted for high level expression in mammalian cells, especially those of human origin. Base substitutions are made in various codons in order to change the codon usage to one more appropriate for expression in mammalian cells. Recombinant vectors carrying such humanized genes are also disclosed. In addition, various methods for using the efficient expression of humanized **GFP** in mammalian cells and in animals are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:24523 USPATFULL  
TITLE: Humanized green **fluorescent protein** genes and methods  
INVENTOR(S): Zolotukhin, Sergei, Gainesville, FL, United States  
Muzyczka, Nicholas, Gainesville, FL, United States  
Hauswirth, William W., Gainesville, FL, United States  
PATENT ASSIGNEE(S): University of Florida Research Foundation, Inc., Gainesville, FL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5874304		19990223
APPLICATION INFO.:	US 1996-588201		19960118 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Degen, Nancy		
ASSISTANT EXAMINER:	Wang, Andrew		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	81		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	26 Drawing Figure(s); 19 Drawing Page(s)		
LINE COUNT:	3932		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 14:46:22 ON 26 MAR 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, BIOSIS' ENTERED AT 14:46:40 ON 26 MAR 2004

L1 27483 S FLUORESCENT PROTEIN AND GFP  
L2 16 S MODIFIED GFP AND WILDTYPE  
L3 16 S L1 AND L2

=> s l1 and "S175"

L4 51 L1 AND "S175"

=> s l4 and "F64"

L5 4 L4 AND "F64"

=> d l5 ti abs ibib tot

L5 ANSWER 1 OF 4 USPATFULL on STN  
TI Proteins associated with cell growth, differentiation, and death

AB The invention provides human proteins associated with cell growth, differentiation, and death (CGDD) and polynucleotides which identify and encode CGDD. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with aberrant expression of CGDD.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:282632 USPATFULL

TITLE: Proteins associated with cell growth, differentiation, and death

INVENTOR(S): Azimzai, Yalda, Oakland, CA, UNITED STATES  
Au-Young, Janice, Brisbane, CA, UNITED STATES  
Batra, Sajeev, Oakland, CA, UNITED STATES  
Baughn, Mariah R., San Leandro, CA, UNITED STATES  
Becha, Shanya D., Castro Valley, CA, UNITED STATES  
Borowsky, Mark L., Redwood City, CA, UNITED STATES  
Burford, Neil, Durham, CT, UNITED STATES  
Ding, Li, Creve Coeur, MO, UNITED STATES  
Elliott, Vicki S., San Jose, CA, UNITED STATES  
Emerling, Brooke M., Chicago, IL, UNITED STATES  
Gandhi, Ameena R., San Francisco, CA, UNITED STATES  
Gietzen, Kimberly J., San Jose, CA, UNITED STATES  
Griffin, Jennifer A., San Jose, CA, UNITED STATES  
Hafalia, April J. A., Santa Clara, CA, UNITED STATES  
Honchell, Cynthia D., San Carlos, CA, UNITED STATES  
Lal, Preeti G., Santa Clara, CA, UNITED STATES  
Lee, Soo Yeun, Daly City, CA, UNITED STATES  
Lu, Dyung Aina M., San Jose, CA, UNITED STATES  
Arvizu, Chandra S., San Jose, CA, UNITED STATES  
Ramkumar, Jayalaxmi, Fremont, CA, UNITED STATES  
Reddy, Roopa M., Sunnyvale, CA, UNITED STATES  
Sanjanwala, Madhusudan S., Los Altos, CA, UNITED STATES  
Tang, Y. Tom, San Jose, CA, UNITED STATES  
Chawla, Narinder K., Union City, CA, UNITED STATES  
Wang, Yu-Mei E., Mountain View, CA, UNITED STATES  
Warren, Bridget A., Encinitas, CA, UNITED STATES  
Xu, Yuming, Mountain View, CA, UNITED STATES  
Yang, Junming, San Jose, CA, UNITED STATES  
Yao, Monique G., Carmel, IN, UNITED STATES  
Yue, Henry, Sunnyvale, CA, UNITED STATES  
Zebarjadian, Yeganeh, San Francisco, CA, UNITED STATES  
PATENT ASSIGNEE(S): Incyte Genomics, Inc., Palo Alto, CA (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003198975	A1	20031023
APPLICATION INFO.:	US 2002-287218	A1	20021031 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 2002-US11152, filed on 5 Apr 2002, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	WO 2002-US11152	20020405
	US 2002-349705P	20020115 (60)
	US 2001-295263P	20010601 (60)
	US 2001-295340P	20010601 (60)
	US 2001-293727P	20010525 (60)
	US 2001-291846P	20010518 (60)
	US 2001-291662P	20010516 (60)
	US 2001-287228P	20010427 (60)
	US 2001-286820P	20010426 (60)
	US 2001-283294P	20010411 (60)
	US 2001-282110P	20010406 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: INCYTE CORPORATION (formerly known as Incyte, Genomics, Inc.), 3160 PORTER DRIVE, PALO ALTO, CA, 94304  
NUMBER OF CLAIMS: 97  
EXEMPLARY CLAIM: 1  
LINE COUNT: 10940  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 2 OF 4 USPATFULL on STN

TI Fluorescent proteins  
AB The present invention provides novel engineered derivatives of green **fluorescent protein (GFP)** which have an amino acid sequence which is modified by amino acid substitution compared with the amino acid sequence of wild type Green **Fluorescent Protein**. The modified GFPs exhibit enhanced fluorescence relative to wtGFP when expressed in non-homologous cells at temperatures above 30° C., and when excited at about 490 nm compared to the parent proteins, i.e. wtGFP. An example of a preferred protein is F64L-S175G-E222G-**GFP**. The modified GFPs provide a means for detecting **GFP** reporters in mammalian cells at lower levels of expression and/or increased sensitivity relative to wtGFP. This greatly improves the usefulness of fluorescent proteins in studying cellular functions in living cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:251073 USPATFULL  
TITLE: Fluorescent proteins  
INVENTOR(S): Stubbs, Simon Lawrence John, Amersham Buckinghamshire, UNITED KINGDOM  
Jones, Anne Elizabeth, Amersham Buckinghamshire, UNITED KINGDOM  
Michael, Nigel Paul, Amersham Buckinghamshire, UNITED KINGDOM  
Thomas, Nicholas, Amersham Buckinghamshire, UNITED KINGDOM

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003175859	A1	20030918
APPLICATION INFO.:	US 2001-967301	A1	20010928 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	GB 2001-9858	20010423
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AMERSHAM BIOSCIENCES, PATENT DEPARTMENT, 800 CENTENNIAL AVENUE, PISCATAWAY, NJ, 08855	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Page(s)	
LINE COUNT:	1284	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 4 USPATFULL on STN

TI Polynucleotide encoding a novel immunoglobulin superfamily member, APEX4, and variants and splice variants thereof  
AB The present invention provides novel polynucleotides encoding APEX4 polypeptides, fragments and homologues thereof. The present invention also provides polynucleotides encoding variants and splice variants of APEX4 polypeptides, APEX4v1 and APEX4sv1, respectively. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates

to diagnostic and therapeutic methods for applying these novel APEX4, APEX4v1, and APEX4sv1 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:133932 USPATFULL  
 TITLE: Polynucleotide encoding a novel immunoglobulin superfamily member, APEX4, and variants and splice variants thereof  
 INVENTOR(S): Finger, Joshua N., San Marcos, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003092017	A1	20030515
APPLICATION INFO.:	US 2002-104943	A1	20020322 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-278037P	20010322 (60)
	US 2001-281223P	20010403 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	13 Drawing Page(s)	
LINE COUNT:	13219	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 4 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 TI Novel **fluorescent protein** derived from green **fluorescent protein** useful as a transfection marker, has different excitation spectrum and/or emission spectrum compared with wild-type green **fluorescent protein**.

AN 2003-095652 [09] WPIDS

AB GB 2374868 A UPAB: 20030206

NOVELTY - A **fluorescent protein** (I) derived from green **fluorescent protein** (GFP) or any functional GFP analog, has an amino acid sequence which is modified by amino acid substitution at position **F64**, at position **S65** or **E222**, and at position **S175** compared with the amino acid sequence of wild-type **GFP**, and has different excitation spectrum and/or emission spectrum compared with wild-type **GFP**, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a fusion compound (II) comprising a protein of interest fused to (I);
- (2) a nucleic acid molecule (III) comprising a nucleotide sequence encoding (I) or (II);
- (3) an expression vector (IV) comprising suitable expression control sequences operably linked to (III); and
- (4) a host cell (V) transformed or transfected with a DNA construct comprising (IV).

USE - (III) is useful for measuring the expression of a protein of interest in a cell, by introducing (III) into a cell, where (III) is operably linked to and under the control of an expression control sequence which moderates expression of the protein of interest, culturing the cell under conditions suitable for the expression of the protein of interest, and detecting the fluorescence emission of **GFP** or functional **GFP** analog. (III) is useful for determining the cellular and/or

extracellular localization of a protein of interest. (III) is also useful for comparing the effect of one or more test substance(s) on the expression and/or localization of one or more different protein(s) of interest in a cell. The method involves:

(a) introducing into a cell, (III) operably linked to and under the control of a first expression control sequence and optionally fused to a nucleotide sequence encoding a fusion protein of interest, and optionally, at least one different nucleic acid molecule encoding a protein reporter molecule fused to a different protein of interest, where the nucleic acid molecule is operably linked to and under the control of a second expression control sequence, and the protein reporter molecule has or is capable of generating an emission signal which is spectrally distinct from that of **GFP** or functional **GFP** analog;

(b) culturing the cells under conditions suitable for the expression of the protein(s) of interest in the presence and absence of the test substance(s);

(c) determining the expression and/or localization of the protein(s) in the cells by detecting the fluorescence emission by optical means; and

(d) comparing the fluorescence emission obtained in the presence and absence of the test substance(s).

The samples of the cells in a fluid medium are introduced into separate vessels for each of the test substances to be studied (all claimed).

(I) is useful as a non-toxic marker for selection of transfected cells, as a protein label in living and fixed cells, as a marker in cell or organelle fusion, for visualizing translocation of intracellular proteins to a specific organelle, as a secretion marker, as genetic reporter or protein tag for protein and gene expression in transgenic animals, as a cell or organelle integrity marker, as a transfection marker, as a marker to be used in combination with fluorescent activated cell sorting (FACS), as real-time probe working at near physiological concentrations, for performing transposon vector mutagenesis, and as a reporter for bacterial detection.

**ADVANTAGE** - (I) exhibits enhanced fluorescence relative to wild type **GFP**, when expressed in non-homologous cells at temperatures above 30 deg. C, and excited at 490 nm. (I) detects **GFP** reporters in mammalian cells at lower levels of expression with increased sensitivity relative to wild type **GFP**.

Dwg.0/7

ACCESSION NUMBER: 2003-095652 [09] WPIDS  
DOC. NO. NON-CPI: N2003-075841  
DOC. NO. CPI: C2003-024324  
TITLE: Novel **fluorescent protein** derived  
from green **fluorescent protein** useful  
as a transfection marker, has different excitation  
spectrum and/or emission spectrum compared with wild-type  
green **fluorescent protein**.  
DERWENT CLASS: B04 D16 S03  
INVENTOR(S): JONES, A E; MICHAEL, N P; STUBBS, S L J; THOMAS, N  
PATENT ASSIGNEE(S): (AMSH) AMERSHAM BIOSCIENCES UK LTD; (AMSH) AMERSHAM  
PHARMACIA BIOTECH UK LTD; (JONE-I) JONES A E; (MICH-I)  
MICHAEL N P; (STUB-I) STUBBS S L J; (THOM-I) THOMAS N  
COUNTRY COUNT: 98  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
GB 2374868	A	20021030	(200309)*		52
WO 2002085936	A1	20021031	(200309)	EN	
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ					
NL OA PT SD SE SL SZ TR TZ UG ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK					
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR					
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO					



RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
 GB 2374868 B 20030709 (200353)  
 US 2003175859 A1 20030918 (200362)  
 EP 1381625 A1 20040121 (200410) EN  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI TR

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
GB 2374868	A	GB 2001-23288	20010928
WO 2002085936	A1	WO 2001-GB4363	20010928
GB 2374868	B	GB 2001-23288	20010928
US 2003175859	A1	US 2001-967301	20010928
EP 1381625	A1	EP 2001-972260	20010928
		WO 2001-GB4363	20010928

FILING DETAILS:

PATENT NO	KIND	PATENT NO
EP 1381625	A1 Based on	WO 2002085936

PRIORITY APPLN. INFO: GB 2001-9858 20010423

=> d his

(FILE 'HOME' ENTERED AT 14:46:22 ON 26 MAR 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, BIOSIS' ENTERED AT 14:46:40 ON 26 MAR 2004

L1 27483 S FLUORESCENT PROTEIN AND GFP  
 L2 16 S MODIFIED GFP AND WILDTYPE  
 L3 16 S L1 AND L2  
 L4 51 S L1 AND "S175"  
 L5 4 S L4 AND "F64"

=> s l4 and E222  
 'E222' NOT FOUND  
 The E# entered is not currently defined.

=> s l4 and "E222"  
 L6 2 L4 AND "E222"

=> s l1 and "S65"  
 L7 66 L1 AND "S65"

=> d l6 ti abs ibib tot

L6 ANSWER 1 OF 2 USPATFULL on STN  
 TI Fluorescent proteins  
 AB The present invention provides novel engineered derivatives of green **fluorescent protein (GFP)** which have an amino acid sequence which is modified by amino acid substitution compared with the amino acid sequence of wild type Green **Fluorescent Protein**. The modified GFPs exhibit enhanced fluorescence relative to wtGFP when expressed in non-homologous cells at temperatures above 30° C., and when excited at about 490 nm compared to the parent proteins, i.e. wtGFP. An example of a preferred protein is F64L-S175G-E222G-**GFP**. The modified GFPs provide a means for detecting **GFP** reporters in mammalian cells at lower levels of expression and/or increased sensitivity relative to

wtGFP. This greatly improves the usefulness of fluorescent proteins in studying cellular functions in living cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:251073 USPATFULL  
TITLE: Fluorescent proteins  
INVENTOR(S): Stubbs, Simon Lawrence John, Amersham Buckinghamshire, UNITED KINGDOM  
Jones, Anne Elizabeth, Amersham Buckinghamshire, UNITED KINGDOM  
Michael, Nigel Paul, Amersham Buckinghamshire, UNITED KINGDOM  
Thomas, Nicholas, Amersham Buckinghamshire, UNITED KINGDOM

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003175859	A1	20030918
APPLICATION INFO.:	US 2001-967301	A1	20010928 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	GB 2001-9858	20010423
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AMERSHAM BIOSCIENCES, PATENT DEPARTMENT, 800 CENTENNIAL AVENUE, PISCATAWAY, NJ, 08855	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Page(s)	
LINE COUNT:	1284	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 2 OF 2 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Novel **fluorescent protein** derived from green **fluorescent protein** useful as a transfection marker, has different excitation spectrum and/or emission spectrum compared with wild-type green **fluorescent protein**.

AN 2003-095652 [09] WPIDS

AB GB 2374868 A UPAB: 20030206

NOVELTY - A **fluorescent protein** (I) derived from green **fluorescent protein** (GFP) or any functional GFP analog, has an amino acid sequence which is modified by amino acid substitution at position F64, at position S65 or E222, and at position S175 compared with the amino acid sequence of wild-type GFP, and has different excitation spectrum and/or emission spectrum compared with wild-type GFP, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a fusion compound (II) comprising a protein of interest fused to (I);
- (2) a nucleic acid molecule (III) comprising a nucleotide sequence encoding (I) or (II);
- (3) an expression vector (IV) comprising suitable expression control sequences operably linked to (III); and
- (4) a host cell (V) transformed or transfected with a DNA construct comprising (IV).

USE - (III) is useful for measuring the expression of a protein of interest in a cell, by introducing (III) into a cell, where (III) is operably linked to and under the control of an expression control sequence which moderates expression of the protein of interest, culturing the cell under conditions suitable for the expression of the protein of interest, and detecting the fluorescence emission of GFP or functional GFP analog. (III) is useful for determining the cellular and/or

extracellular localization of a protein of interest. (III) is also useful for comparing the effect of one or more test substance(s) on the expression and/or localization of one or more different protein(s) of interest in a cell. The method involves:

(a) introducing into a cell, (III) operably linked to and under the control of a first expression control sequence and optionally fused to a nucleotide sequence encoding a fusion protein of interest, and optionally, at least one different nucleic acid molecule encoding a protein reporter molecule fused to a different protein of interest, where the nucleic acid molecule is operably linked to and under the control of a second expression control sequence, and the protein reporter molecule has or is capable of generating an emission signal which is spectrally distinct from that of **GFP** or functional **GFP** analog;

(b) culturing the cells under conditions suitable for the expression of the protein(s) of interest in the presence and absence of the test substance(s);

(c) determining the expression and/or localization of the protein(s) in the cells by detecting the fluorescence emission by optical means; and

(d) comparing the fluorescence emission obtained in the presence and absence of the test substance(s).

The samples of the cells in a fluid medium are introduced into separate vessels for each of the test substances to be studied (all claimed).

(I) is useful as a non-toxic marker for selection of transfected cells, as a protein label in living and fixed cells, as a marker in cell or organelle fusion, for visualizing translocation of intracellular proteins to a specific organelle, as a secretion marker, as genetic reporter or protein tag for protein and gene expression in transgenic animals, as a cell or organelle integrity marker, as a transfection marker, as a marker to be used in combination with fluorescent activated cell sorting (FACS), as real-time probe working at near physiological concentrations, for performing transposon vector mutagenesis, and as a reporter for bacterial detection.

**ADVANTAGE** - (I) exhibits enhanced fluorescence relative to wild type **GFP**, when expressed in non-homologous cells at temperatures above 30 deg. C, and excited at 490 nm. (I) detects **GFP** reporters in mammalian cells at lower levels of expression with increased sensitivity relative to wild type **GFP**.

Dwg.0/7

ACCESSION NUMBER: 2003-095652 [09] WPIDS  
DOC. NO. NON-CPI: N2003-075841  
DOC. NO. CPI: C2003-024324  
TITLE: Novel fluorescent protein derived from green fluorescent protein useful as a transfection marker, has different excitation spectrum and/or emission spectrum compared with wild-type green fluorescent protein.  
DERWENT CLASS: B04 D16 S03  
INVENTOR(S): JONES, A E; MICHAEL, N P; STUBBS, S L J; THOMAS, N  
PATENT ASSIGNEE(S): (AMSH) AMERSHAM BIOSCIENCES UK LTD; (AMSH) AMERSHAM PHARMACIA BIOTECH UK LTD; (JONE-I) JONES A E; (MICH-I) MICHAEL N P; (STUB-I) STUBBS S L J; (THOM-I) THOMAS N  
COUNTRY COUNT: 98  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
GB 2374868	A	20021030	(200309)*		52
WO 2002085936	A1	20021031	(200309)	EN	
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO					

RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
 GB 2374868 B 20030709 (200353)  
 US 2003175859 A1 20030918 (200362)  
 EP 1381625 A1 20040121 (200410) EN  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI TR

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
GB 2374868	A	GB 2001-23288	20010928
WO 2002085936	A1	WO 2001-GB4363	20010928
GB 2374868	B	GB 2001-23288	20010928
US 2003175859	A1	US 2001-967301	20010928
EP 1381625	A1	EP 2001-972260	20010928
		WO 2001-GB4363	20010928

FILING DETAILS:

PATENT NO	KIND	PATENT NO
EP 1381625	A1 Based on	WO 2002085936

PRIORITY APPLN. INFO: GB 2001-9858 20010423

=> d his

(FILE 'HOME' ENTERED AT 14:46:22 ON 26 MAR 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, BIOSIS' ENTERED AT 14:46:40 ON 26 MAR 2004

L1 27483 S FLUORESCENT PROTEIN AND GFP  
 L2 16 S MODIFIED GFP AND WILDTYPE  
 L3 16 S L1 AND L2  
 L4 51 S L1 AND "S175"  
 L5 4 S L4 AND "F64"  
 L6 2 S L4 AND "E222"  
 L7 66 S L1 AND "S65"

=> d l7 ti abs ibib 1-10

L7 ANSWER 1 OF 66 MEDLINE on STN

TI The extracellular N terminus of the endothelin B (ETB) receptor is cleaved by a metalloprotease in an agonist-dependent process.  
 AB The extracellular N terminus of the endothelin B (ET(B)) receptor is susceptible to limited proteolysis (cleavage at R64 downward arrow S65), but the regulation and the functional consequences of the proteolysis remain elusive. We analyzed the ET(B) receptor or an ET(B)-GFP fusion protein stably or transiently expressed in HEK293 cells. After incubation of cells at 4 degrees C, only the full-length ET(B) receptor was detected at the cell surface. However, when cells were incubated at 37 degrees C, N-terminal cleavage was observed, provided endothelin 1 was present during the incubation. Cleavage was not inhibited by internalization inhibitors (sucrose, phenylarsine oxide). However, in cells incubated with both internalization inhibitors and metalloprotease inhibitors (batimastat, inhibitor of TNFalpha-convertase) or metal chelators (EDTA, phenanthroline), the cleavage was blocked, indicating that metalloproteases cleave the agonist-occupied ET(B) receptor at the cell surface. Functional analysis of a mutant ET(B) receptor lacking the first 64 amino acids ([Delta2-64]ET(B) receptor) revealed normal functional properties, but a 15-fold reduced cell surface expression. The results suggest a role of the N-terminal proteolysis in

the regulation of cell surface expression of the ET(B) receptor. This is the first example of a multispinning membrane protein, which is cleaved by a metalloprotease, but retains its functional activity and overall structure.

ACCESSION NUMBER: 2002684360 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 12226103  
TITLE: The extracellular N terminus of the endothelin B (ETB) receptor is cleaved by a metalloprotease in an agonist-dependent process.  
AUTHOR: Grantcharova Evelina; Furkert Jens; Reusch H Peter; Krell Hans-Willi; Papsdorf Gisela; Beyermann Michael; Schulein Ralf; Rosenthal Walter; Oksche Alexander  
CORPORATE SOURCE: Forschungsinstitut fur Molekulare Pharmakologie, Campus Berlin Buch, Robert-Roessle-Strasse 10, 13125 Berlin, Federal Republic of Germany.  
SOURCE: Journal of biological chemistry, (2002 Nov 15) 277 (46) 43933-41.  
Journal code: 2985121R. ISSN: 0021-9258.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200301  
ENTRY DATE: Entered STN: 20021214  
Last Updated on STN: 20030103  
Entered Medline: 20030102

L7 ANSWER 2 OF 66 USPATFULL on STN

TI Human kinases

AB The invention provides human kinases (PKIN) and polynucleotides which identify and encode PKIN. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonist. The invention also provides methods for diagnosing, treating, or preventing disorders associated with aberrant expression of PKIN.

ACCESSION NUMBER: 2004:76648 USPATFULL  
TITLE: Human kinases  
INVENTOR(S): Yang, Junming, San Jose, CA, UNITED STATES  
Baughn, Mariah R., San Leandro, CA, UNITED STATES  
Buford, Neil, Durham, CT, UNITED STATES  
Au-Young, Janice, Brisbane, CA, UNITED STATES  
Lu, Dyung Aina M, San Jose, CA, UNITED STATES  
Reddy, Roopa, Sunnyvale, CA, UNITED STATES  
Yue, Henry, Sunnyvale, CA, UNITED STATES  
Yao, Monique G, Mountain View, CA, UNITED STATES  
Lal, Preeti, Santa Clara, CA, UNITED STATES  
Khan, Farrah A, Des Plaines, IL, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004058426	A1	20040325
APPLICATION INFO.:	US 2002-168582	A1	20020620 (10)
	WO 2000-US35304		20001220
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	INCYTE CORPORATION (formerly known as Incyte, Genomics, Inc.), 3160 PORTER DRIVE, PALO ALTO, CA, 94304		
NUMBER OF CLAIMS:	28		
EXEMPLARY CLAIM:	1		
LINE COUNT:	6360		

L7 ANSWER 3 OF 66 USPATFULL on STN

TI Enzymes involved in glycoprotein and glycolipid metabolism

AB The invention provides human enzymes involved in glycoprotein and

glycolipid metabolism (GLYCOS) and polynucleotides which identify and encode GLYCOS. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorder associated with aberrant expression of GLYCOS.

ACCESSION NUMBER: 2004:70606 USPATFULL  
TITLE: Enzymes involved in glycoprotein and glycolipid metabolism  
INVENTOR(S): Lal, Preeti G, Santa Clara, CA, UNITED STATES  
Yue, Henry, Sunnyvale, CA, UNITED STATES  
Lu, Dyung Aina M., San Jose, CA, UNITED STATES  
Gandhi, Ameena R., San Francisco, CA, UNITED STATES  
Thangavelu, Kavitha, Sunnyvale, CA, UNITED STATES  
Chawla, Narinder K., Union City, CA, UNITED STATES  
Baughn, Mariah R., San Leandro, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004053834	A1	20040318
APPLICATION INFO.:	US 2003-415186	A1	20030423 (10)
	WO 2001-US44973		20011030
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	INCYTE CORPORATION, 3160 PORTER DRIVE, PALO ALTO, CA, 94304		
NUMBER OF CLAIMS:	59		
EXEMPLARY CLAIM:	1		
LINE COUNT:	4821		

L7 ANSWER 4 OF 66 USPATFULL on STN

TI Human kinases

AB The invention provides human human kinases (PKIN) and polynucleotides which identify and encode PKIN. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with aberrant expression of PKIN.

ACCESSION NUMBER: 2004:70167 USPATFULL  
TITLE: Human kinases  
INVENTOR(S): Gururajan, Rajagopal, SAN JOSE, CA, UNITED STATES  
Baughn, Mariah R, San Leandro, CA, UNITED STATES  
Chawla, Narinder K, Union City, CA, UNITED STATES  
Elliott, Vicki S, San Jose, CA, UNITED STATES  
Xu, Yuming, Mountain View, CA, UNITED STATES  
Arvizu, Chandra S, San Jose, CA, UNITED STATES  
Yao, Monique G, Carmel, INDIA  
Ramkumar, Jayalaxmi, Fremont, CA, UNITED STATES  
Ding, Li, Creve Coeur, MO, UNITED STATES  
Tang, Y Tom, San Jose, CA, UNITED STATES  
Hafalia, April J A, Daly City, CA, UNITED STATES  
Nguyen, Danniel B, San Jose, CA, UNITED STATES  
Gandhi, Ameena R, San Francisco, CA, UNITED STATES  
Lu, Yan, Mountain View, CA, UNITED STATES  
Yue, Henry, Sunnyvale, CA, UNITED STATES  
Burford, Neil, Durham, CT, UNITED STATES  
Bandman, Olga, Mountain View, CA, UNITED STATES  
Tribouley, Catherine M, San Francisco, CA, UNITED STATES  
Lal, Preeti G, Santa Clara, CA, UNITED STATES  
Recipon, Shirley A, San Francisco, CA, UNITED STATES  
Lu, Dyung Aina M, San Jose, CA, UNITED STATES  
Borowsky, Mark L, Northampton, MA, UNITED STATES  
Thornton, Michael B, Oakland, CA, UNITED STATES

Swarnakar, Anita, San Francisco, CA, UNITED STATES  
Thangavelu, Kavitha, Sunnyvale, CA, UNITED STATES  
Khan, Farrah A, Des Plaines, IL, UNITED STATES  
Ison, Craig H, San Jose, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004053394	A1	20040318
APPLICATION INFO.:	US 2003-415011	A1	20030418 (10)
	WO 2001-US47728		20011020
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	INCYTE CORPORATION, 3160 PORTER DRIVE, PALO ALTO, CA, 94304		
NUMBER OF CLAIMS:	99		
EXEMPLARY CLAIM:	1		
LINE COUNT:	9902		

L7 ANSWER 5 OF 66 USPATFULL on STN

TI Novel metalloprotease polypeptide, MP-1

AB The present invention provides novel polynucleotides encoding MP-1 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel MP-1 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

ACCESSION NUMBER: 2004:63784 USPATFULL  
TITLE: Novel metalloprotease polypeptide, MP-1  
INVENTOR(S): Chen, Jian, Princeton, NJ, UNITED STATES  
Feder, John N., Belle Mead, NJ, UNITED STATES  
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES  
Krystek, Stanley R., Ringoes, NJ, UNITED STATES  
Duclos, Franck, Washington Crossing, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004048302	A1	20040311
APPLICATION INFO.:	US 2003-651722	A1	20030829 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-67443, filed on 5 Feb 2002, GRANTED, Pat. No. US 6642041		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-266518P	20010205 (60)
	US 2001-282814P	20010410 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000	
NUMBER OF CLAIMS:	32	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	43 Drawing Page(s)	
LINE COUNT:	15444	

L7 ANSWER 6 OF 66 USPATFULL on STN

TI Lipid metabolism enzymes

AB The invention provides human lipid metabolism enzymes (LMM) and polynucleotides which identify and encode LMM. The invention also provides expression vectors, host cells, antibodies, agonists, and

antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with aberrant expression of LMM.

ACCESSION NUMBER: 2004:63751 USPATFULL  
TITLE: Lipid metabolism enzymes  
INVENTOR(S): Griffin, Jennifer A, Fremont, CA, UNITED STATES  
Arvizu, Chandra S, San Jose, CA, UNITED STATES  
Ammena R, Gandhi, San Francisco, CA, UNITED STATES  
Lu, Yan, Palo Alto, CA, UNITED STATES  
Yao, Monique G, Carmel, IN, UNITED STATES  
Baughn, Mariah R, San Leandro, CA, UNITED STATES  
Chawla, Narinder K, Union City, CA, UNITED STATES  
Hafalia, April J A, Santa Clara, CA, UNITED STATES  
Ding, Li, Creve Coeur, MO, UNITED STATES  
Tribouley, Catherine M, San Francisco, CA, UNITED STATES  
Das, Debopriya, Mountain View, CA, UNITED STATES  
Thornton, Michael B, Woodside, CA, UNITED STATES  
Lal, Preeti G, Santa Clara, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004048269	A1	20040311
APPLICATION INFO.:	US 2003-362628	A1	20030221 (10)
	WO 2001-US26365		20010822
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	INCYTE CORPORATION (formerly known as Incyte, Genomics, Inc.), 3160 PORTER DRIVE, PALO ALTO, CA, 94304		
NUMBER OF CLAIMS:	71		
EXEMPLARY CLAIM:	1		
LINE COUNT:	5637		

L7 ANSWER 7 OF 66 USPATFULL on STN  
TI Extracellular signaling molecules  
AB The invention provides human extracellular signaling molecules (EXCS) and polynucleotides which identify and encode EXCS. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with expression of EXCS.

ACCESSION NUMBER: 2004:63726 USPATFULL  
TITLE: Extracellular signaling molecules  
INVENTOR(S): Tang, Y. Tom, San Jose, CA, UNITED STATES  
Yue, Henry, Sunnyvale, CA, UNITED STATES  
Lal, Preeti, Santa Clara, CA, UNITED STATES  
Burford, Neil, Durham, CT, UNITED STATES  
Bandman, Olga, Mountain View, CA, UNITED STATES  
Baughn, Mariah R., San Leandro, CA, UNITED STATES  
Azimzai, Yalda, Castro Valley, CA, UNITED STATES  
Lu, Dyung Aina M., San Jose, CA, UNITED STATES  
Arvizu, Chandra, Menlo Park, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004048244	A1	20040311
APPLICATION INFO.:	US 2001-969984	A1	20011002 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	INCYTE CORPORATION, 3160 PORTER DRIVE, PALO ALTO, CA, 94304		
NUMBER OF CLAIMS:	107		
EXEMPLARY CLAIM:	1		



NUMBER OF DRAWINGS: 2 Drawing Page(s)  
LINE COUNT: 5730

L7 ANSWER 8 OF 66 USPATFULL on STN  
TI Alpha galactosidase a: remodeling and glycoconjugation of alpha  
galactosidase A  
AB The invention includes methods and compositions for remodeling a peptide  
molecule, including the addition or deletion of one or more glycosyl  
groups to a peptide, and/or the addition of a modifying group to a  
peptide.

ACCESSION NUMBER: 2004:57444 USPATFULL  
TITLE: Alpha galactosidase a: remodeling and glycoconjugation  
of alpha galactosidase A  
INVENTOR(S): DeFrees, Shawn, North Wales, PA, UNITED STATES  
Zopf, David, Wayne, PA, UNITED STATES  
Bayer, Robert, San Diego, CA, UNITED STATES  
Bowe, Caryn, Doylestown, PA, UNITED STATES  
Hakes, David, Willow Grove, PA, UNITED STATES  
Chen, Xi, Lansdale, PA, UNITED STATES  
PATENT ASSIGNEE(S): Neose Technologies, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004043446	A1	20040304
APPLICATION INFO.:	US 2003-411037	A1	20030409 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 2002-US32263, filed on 9 Oct 2002, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-407527P	20020828 (60)
	US 2002-404249P	20020816 (60)
	US 2002-396594P	20020717 (60)
	US 2002-391777P	20020625 (60)
	US 2002-387292P	20020607 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORGAN, LEWIS & BOCKIUS LLP, 1701 MARKET STREET, PHILADELPHIA, PA, 19103-2921	
NUMBER OF CLAIMS:	122	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	497 Drawing Page(s)	
LINE COUNT:	19395	

L7 ANSWER 9 OF 66 USPATFULL on STN  
TI Polynucleotides encoding a novel metalloprotease, MP-1  
AB The present invention provides novel polynucleotides encoding MP-1  
polypeptides, fragments and homologues thereof. Also provided are  
vectors, host cells, antibodies, and recombinant and synthetic methods  
for producing said polypeptides. The invention further relates to  
diagnostic and therapeutic methods for applying these novel MP-1  
polypeptides to the diagnosis, treatment, and/or prevention of various  
diseases and/or disorders related to these polypeptides. The invention  
further relates to screening methods for identifying agonists and  
antagonists of the polynucleotides and polypeptides of the present  
invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
ACCESSION NUMBER: 2004:57405 USPATFULL  
TITLE: Polynucleotides encoding a novel metalloprotease, MP-1  
INVENTOR(S): Chen, Jian, Princeton, NJ, UNITED STATES  
Feder, John N., Belle Mead, NJ, UNITED STATES  
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES

Krystek, Stanley R., Ringoes, NJ, UNITED STATES  
Duclos, Franck, Washington Crossing, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004043407	A1	20040304
APPLICATION INFO.:	US 2003-649273	A1	20030827 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2002-67443, filed on 5 Feb 2002, GRANTED, Pat. No. US 6642041		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-266518P	20010205 (60)
	US 2001-282814P	20010410 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000	
NUMBER OF CLAIMS:	44	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	18 Drawing Page(s)	
LINE COUNT:	15462	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L7 ANSWER 10 OF 66 USPATFULL on STN  
TI Intracellular signaling molecules  
AB The invention provides human intracellular signaling molecules (INTSIG) and polynucleotides which identify and encode INTSIG. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with aberrant expression of INTSIG.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:57393 USPATFULL  
TITLE: Intracellular signaling molecules  
INVENTOR(S): Baughn, Mariah R, San Leandro, CA, UNITED STATES  
Ding, Li, Creve Couer, MO, UNITED STATES  
Elliott, Vicki S, San Jose, CA, UNITED STATES  
Gandhi, Ameena R, San Francisco, CA, UNITED STATES  
Gietzen, Kimberly J, San Jose, CA, UNITED STATES  
Griffin, Jennifer A, Fremont, CA, UNITED STATES  
Gururajan, Rajagopal, San Jose, CA, UNITED STATES  
Hafalia, April J A, Daly City, CA, UNITED STATES  
Kearney, Liam, San Francisco, CA, UNITED STATES  
Khan, Farrah A, Des Plaines, IL, UNITED STATES  
Lal, Preeti G, Santa Clara, CA, UNITED STATES  
Lee, Ernestine A, Castro Valley, CA, UNITED STATES  
M Lu, Dyung Aina, San Jose, CA, UNITED STATES  
Lu, Yan, Mountain View, CA, UNITED STATES  
Nguyen, Danniell B, San Jose, CA, UNITED STATES  
Arvizu, Chandra S, San Jose, CA, UNITED STATES  
Ramkumar, Jayalaxmi, Fremont, CA, UNITED STATES  
Tang, Y Tom, San Jose, CA, UNITED STATES  
Thangavelu, Kavitha, Sunnyvale, CA, UNITED STATES  
Thornton, Michael B, Oakland, CA, UNITED STATES  
Chawla, Narinder K, Union City, CA, UNITED STATES  
Warren, Bridget A, Encinitas, CA, UNITED STATES  
Xu, Yuming, Mountain View, CA, UNITED STATES  
Yao, Monique G, Carmel, IN, UNITED STATES  
Yue, Henry, Sunnyvale, CA, UNITED STATES

NUMBER	KIND	DATE
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PATENT INFORMATION: US 2004043395 A1 20040304  
APPLICATION INFO.: US 2003-399456 A1 20030414 (10)  
WO 2001-US32090 20011012  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: INCYTE CORPORATION, 3160 PORTER DRIVE, PALO ALTO, CA,  
94304  
NUMBER OF CLAIMS: 95  
EXEMPLARY CLAIM: 1  
LINE COUNT: 6007  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.